

**New Hampshire Department of Transportation
Bureau of Materials & Research**

Qualified Products List (QPL) – Qualification Criteria

Section 413 – Hot Poured Crack Sealant, NHDOT Specifications

QPL Category: 413.A Item 413.1 - Hot Poured Crack Sealant

QPL Category: 413.B Item 413.2 - Hot Poured Crack Sealant (Low Modulus)

Product Requirements

Product Description

The hot poured crack sealant shall be a bituminous product, its use specified for filling cracks in asphalt pavement.

- Material not covered by an asphalt pavement overlay shall meet the requirements of ASTM D6690 Type II.
- Material covered by an asphalt pavement overlay shall be low modulus and meet the requirements of ASTM D6690 Type IV except cone penetration shall be as noted in the table below.

Laboratory Test Performance

| Hot Poured Crack Sealant | | | |
|---------------------------------|--------------------|----------------------------|----------------------------|
| Property | Test Method | Type II Requirement | Type IV Requirement |
| Cone Penetration, 25°C | ASTM D 5329 | 90 max. | 110 – 150 |
| Resilience, 25°C | ASTM D 5329 | 60% min. | 60% min. |
| Softening Point | ASTM D 36 | 176° F (80°C) min. | 176° F (80°C) min. |
| Asphalt Compatibility | ASTM D 5329 | Pass | Pass |

Required Submissions

Only complete product submittal packets will be considered for review.

The product supplier/manufacturer shall forward the following documents to the Department's Product Evaluation Unit (PEU) for its review in consideration of qualifying the product for inclusion on the QPL:

QPL Product Submittal Form

The submitted form must be the current, on-line version of the form, and must be completely filled out. It can be accessed here: <https://www.nh.gov/dot/org/projectdevelopment/materials/research/products.htm>.

Letter of Compliance

A Notarized letter on the manufacturer's letterhead affirming the product meets all Department requirements described herein.

Product Literature

Current product literature, including technical data sheets and Safety Data Sheets (SDS), relevant to the material's use, limitations, properties, storage, mixing, application/installation, and all precautions for the product, as applicable.

Laboratory Test Results

Product submittals without laboratory test documentation will not be reviewed.

Laboratory Testing

As part of the evaluation, the Department will review the submitted, required, laboratory test results. Laboratory testing may be conducted through the AASHTO National Transportation Product Evaluation Program (NTPEP), a State transportation agency, or appropriately qualified independent testing laboratory. Test results must be submitted on the testing laboratory's letterhead and the documentation demonstrating that the product meets these requirements must be legible and current. Qualifications of the independent laboratory must also be submitted for review.

Product Performance Monitoring/Removal from QPL

Product field performance and technical data will be monitored by the Department. If either fails to meet the criteria noted herein, the product will be immediately removed from the QPL without notice.

Changes to Product Name, Manufacturer, or Formulation, of a Currently-Listed QPL Product

The PEU shall be contacted immediately when a change to any of the following is made to a product currently listed in the QPL:

- Product name
- Product manufacturer
- Product formulation

For a change in the product name and/or manufacturer, the product will remain in the QPL reflecting that change only upon receipt of verification from the current or new manufacturer attesting the product formulation is unchanged. Verification shall consist of a letter signed by the manufacturer's representative.

For a change in product formulation, the PEU will determine whether:

1. The formulation change could adversely affect the product's required performance, whereupon it will be subject to removal from the QPL; or,
2. The formulation change will not adversely affect the required performance of the product for its intended use, whereupon the product will remain in the QPL.

If at any time it is determined that a product name, manufacturer, or formulation has changed without the required notification to the PEU, the product is subject to immediate removal from the QPL at the discretion of the PEU. The product will not be re-listed in the QPL until the manufacturer provides complete, updated information.

QPL Expiration Date / Product Test Frequency

Qualified products in this QPL section will be listed for 5 years from the date of the most current test result documentation. Based on this date, a corresponding expiration date will be assigned and will be shown on the QPL. For the product to be listed on the QPL past its assigned expiration date, the supplier/manufacturer shall submit new NTPEP laboratory and/or field test results documentation that verifies conformance with the current qualification criteria. The test results documentation shall be submitted with sufficient lead time prior to the expiration date to allow for the PEU's review. Products without current acceptable test results documentation will be removed from the QPL upon reaching the expiration date.

Product Marking and Labeling

The product label shall be marked with the information as required by the applicable specification(s). If a product was converted and/or relabeled from its original manufacturer, the product name on all labels and all accompanying literature shall be that of the convertor or private label company.

Limitations

The Department continues to evaluate its qualification criteria as well as products that have been qualified against them, and reserves the right to revise the criteria and/or withdraw product qualification at any time for any reason without notice. Qualification of a product does not constitute an endorsement of the product, nor does it imply intent to purchase or specify the product.

Qualification Criteria Approved by:

Chief of Materials Technology, Materials & Research, on 3/28/2019

Bureau Administrator, Materials & Research, on 3/28/2019